Proposed Maximum Residue Limit PMRL2009-03

Mandipropamid

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has granted conditional registration to technical grade mandipropamid and the end-use product Revus Fungicide for use in Canada on bulb vegetables (Crop Group 3), *Brassica* (cole) leafy vegetables (Crop Group 5), cucurbit vegetables (Crop Group 9), grapes, lettuce, peppers, potatoes, spinach, tomatillos and tomatoes. See Appendix I for a list of crop group commodities. The specific uses approved in Canada are detailed on the product label of Revus Fungicide, *Pest Control Products Act* Registration Number 29074.

The evaluation of these mandipropamid applications indicated the end-use product has merit and value, and the human health and environmental risks associated with the new uses are acceptable. Details regarding these registrations can be found in Evaluation Report ERC2009-01, *Mandipropamid*.

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions, and that such residues will not be a concern to human health. This quantity is then legally established as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

In addition, the PMRA is proposing to establish import MRLs for mandipropamid on tuberous and corm vegetables (Crop Subgroup 1C), leafy vegetables except *Brassica* (Crop Group 4), fruiting vegetables (Crop Group 8) and okra. See Appendix I for a list of crop group and subgroup commodities. The PMRA has determined the quantity of residues that are likely to remain in or on the imported commodities when mandipropamid is used according to label directions in the exporting country, and that such residues will not be a concern to human health. Details regarding the establishment of these import MRLs can also be found in ERC2009-01.

Consultation on the proposed MRLs for mandipropamid is being conducted via this document (see Next Steps, the last section of this document). A summary of residue data supporting the proposed MRLs is available in Appendix I, Table 5 of ERC2009-01.

To comply with Canada's international trade obligations, consultation on the proposed MRLs is also being conducted internationally by notifying the World Trade Organization, as coordinated by the Standards Council of Canada.

The proposed MRLs for mandipropamid in Canada in or on food are as follows.

Table 1 Proposed Maximum Residue Limits for Mandipropamid

Common Name	Residue Definition	MRL (ppm)	Food Commodity
Mandipropamid	4-chloro-*N*-[2-[3-methoxy-4-(2-propynyloxy)phenyl] ethyl]-α-(2-propynyloxy) benzeneacetamide	25	Leafy *Brassica* greens (Crop Subgroup 5B)
		20	Leafy vegetables, except *Brassica* (Crop Group 4)
		4.0	Green onion subgroup (Crop Subgroup 3-07B)
		3.0	Head and stem *Brassica* (Crop Subgroup 5A), raisins
		1.4	Grapes
		1.0	Fruiting vegetables (Crop Group 8), okra
		0.6	Cucurbit vegetables (Crop Group 9)
		0.05	Bulb onion subgroup (Crop Subgroup 3-07A)
		0.01	Tuberous and corm vegetables (Crop Subgroup 1C)

MRLs for the listed crop groupings are proposed for each commodity included in the crop group or subgroup in accordance with Appendix I.

A complete list of all MRLs established in Canada can be found on the Maximum Residue Limits for Pesticides webpage in the Pesticides and Pest Management section of Health Canada's website.

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		20	Leafy vegetables, except *Brassica* (Crop Group 4)
		4.0	Green onion subgroup (Crop Subgroup 3-07B)
		3.0	Head and stem *Brassica* (Crop Subgroup 5A), raisins
		1.4	Grapes
		1.0	Fruiting vegetables (Crop Group 8), okra
		0.6	Cucurbit vegetables (Crop Group 9)
		0.05	Bulb onion subgroup (Crop Subgroup 3-07A)
		0.01	Tuberous and corm vegetables (Crop Subgroup 1C)

MRLs for the listed crop groupings are proposed for each commodity included in the crop group or subgroup in accordance with Appendix I.

A complete list of all MRLs established in Canada can be found on the Maximum Residue Limits for Pesticides webpage in the Pesticides and Pest Management section of Health Canada's website.

International Situation and Trade Implications

The proposed Canadian MRLs are the same as corresponding tolerances established in the United States (tolerances listed in the Electronic Code of Federal Regulations by pesticide). However, note that Canadian MRLs are proposed for the entire bulb vegetable crop group, whereas American tolerances are only established on dry bulb onions and green onions, at 0.05 ppm and 4.0 ppm respectively, consistent with the crop subgroup MRLs proposed in Table 1. Currently, Codex MRLs[1] have not been established for mandipropamid on any commodity. A listing of all established Codex MRLs is available on the Pesticide Residues in Food website.

Next Steps

The PMRA invites the public to submit written comments on the proposed MRLs for mandipropamid up to 75 days from the date of publication of this document. Please forward your comments to Publications. The PMRA will consider all comments received before making a final decision on the proposed MRLs for mandipropamid and posting a corresponding Established Maximum Residue Limit document in the Pesticides and Pest Management section of Health Canada's website.

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[1] Codex is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

Appendix I

Crop Groups: Numbers and Definitions

Crop Group Number	Name of the Crop Group/Subgroup	Food Commodities Included in the Crop Group/Subgroup
1C	Root and tuber vegetables; Tuberous and corm vegetables subgroup	Arracacha Arrowroot Cassava roots Chayote roots Chinese artichokes Chufa Edible canna Ginger roots Jerusalem artichokes Lerens Potatoes Sweet potato roots Tanier corms Taro corms True yam tubers Turmeric roots Yam bean roots
3-07A	Bulb vegetables; Bulb onion subgroup	Chinese onions Daylilies Dry bulb onions Fritillaria bulbs Garlic Great headed garlic Lilies Pearl onions Potato onions Serpent garlic Shallot bulbs

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Crop Group Number	Name of the Crop Group/Subgroup	Food Commodities Included in the Crop Group/Subgroup
3-07B	Bulb vegetables; Green onion subgroup	Beltsville bunching onions Elegans hosta Fresh Chinese chive leaves Fresh chive leaves Fresh onions Fritillaria leaves Green onions Kurrats Lady's leeks Leeks Macrostem onions Shallot leaves Tree onion tops Welsh onion tops Wild leeks

Crop Group Number	Name of the Crop Group/Subgroup	Food Commodities Included in the Crop Group/Subgroup
4	Leafy vegetables (except *Brassica* vegetables)	Amaranth Arugula Cardoon Celery Celtuce Chinese celery Corn salad Dandelion leaves Dock Edible leaved chrysanthemum Endives Fresh chervil leaves Fresh Florence fennel leaves and stalk Fresh parsley leaves Garden cress Garden purslane Garland chrysanthemum Head lettuce Leaf lettuce New Zealand spinach Orach leaves Radicchio Rhubarb Spinach Swiss chard Upland cress Vine spinach Winter purslane
5A	*Brassica* (cole) leafy vegetables; Head and stem *Brassica* subgroup	Broccoli Brussels sprouts Cabbages Cauliflower Chinese broccoli Chinese mustard cabbages Kohlrabi Napa Chinese cabbages

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Crop Group Number	Name of the Crop Group/Subgroup	Food Commodities Included in the Crop Group/Subgroup
5B	*Brassica* (cole) leafy vegetables; Leafy *Brassica* greens subgroup	Bok choy Chinese cabbages Broccoli raab Collards Kale Mustard greens Mustard spinach Rape greens
8	Fruiting vegetables (except cucurbits)	Bell peppers Eggplants Groundcherries Non-bell peppers Pepinos Pepper hybrids Tomatillos Tomatoes
9	Cucurbit vegetables	Balsam apples Balsam pears Cantaloupes Chayote fruit Chinese cucumbers Chinese waxgourds Citron melons Cucumbers Edible gourds (other than those listed in this item) Muskmelons (other than those listed in this item) Pumpkins Summer squash Watermelons West Indian gherkins Winter squash

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